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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,026	03/26/2004	Peter R. Munguia	42P18957	8408

8791 7590 08/28/2006

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EXAMINER

RAY, GOPAL C

ART UNIT	PAPER NUMBER
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2111

DATE MAILED: 08/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/810,026

Applicant(s)

MUNGUIA, PETER R.

Examiner

Gopal C. Ray

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 July 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 7/27/06.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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1. The examiner acknowledges the Request for Continued Examination (RCE) along with an IDS filed on 7/27/06. Claims 1-20 are presented for examination. The indicated allowability of claims 1-20 in previous office action is withdrawn in view of newly discovered reference. Rejection based on the newly cited reference is shown below.

2. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 5-11 and 15-20 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US Patent Application Publication US 2002/083241 A1 in view of common knowledge in the data processing art.

As per claim 1, US Patent Application Publication US 2002/083241 A1 teaches "a variable speed bus" in Fig. 1, element 3 and paragraph [0022]; "a first unit coupled to the variable speed bus and a second unit coupled to the variable speed bus" in Fig. 1, elements 9.1 – 9.N and paragraph [0022]; "an arbitration and bus clock control unit" in Fig. 1, element 5 which also has clock functions, see also paragraph [0022]; "... adjust the variable clock speed frequency on bandwidth requirements of the first and second units, the arbitration and bus clock control unit to monitor request rates from the first and second units in order to determine the bandwidth requirements" in paragraph [0031], CLK2 is generated taking into account the number of transmitter units that request permission to send data and in paragraph [0032], the sum M denotes the number of

transmitter units that request permission to send data, the lower is M and the lower is the frequency of CLK2.

The difference between the claimed subject matter of claim 1 and the disclosure of US Patent Application Publication US 2002/083241 A1 is that the apparatus of claim 1 monitors the request rates whereas the above US Patent Application Publication monitors the number of requests at a given time. The difference amounts to a minor design variation within the skill of an ordinary person in the data processing art at the time of the invention, providing no advantages over the apparatus of the above US Patent Application Publication. Hence, it is matter of design choice.

As per dependent claims 5-8, the claims are rejected for the same reasons as discussed in the rejection of claim 1 with the exception of claiming various alternatively useable units for isochronous data transfer. The examiner takes Official Notice that the claimed features were well known in the data processing art at the time the invention was made. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of US Patent Application Publication US 2002/083241 A1 to implement the above features to obtain the claimed invention because these are straightforward possibilities from which one of ordinary skill in the art at the time the invention was made would select in accordance with circumstances without the exercise of inventive skill in order to allow the system of US Patent Application Publication US 2002/083241 A1 to be compatible with a widely used standard and to allow the system to take advantage of the many benefits provided by those features.

As per claim 9, the above US Patent Application Publication teaches the added limitation of the claim in paragraph [0045].

As per claim 10, the limitations of the claim are similar to claim 1. Therefore, the claim is rejected for similar reasons as discussed in the rejection of claim 1 above.

As per claim 11, the above US Patent Application Publication teaches "a bus interface logic unit" in Fig.5.

As per claims 15-18, the added limitations of the claims are rejected for the same reasons as discussed in the rejection of claims 5-8 respectively.

As per claim 19, the above US Patent Application Publication teaches the added limitation of the claim in paragraph [0031].

As per claim 20, the added limitation of the claim is rejected for the same reasons as discussed in the rejection of claim 19 above.

4. Claims 2-4 and 12-14 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US Patent Application Publication US 2002/083241 A1 in view of common knowledge in the data processing art as applied in claims 1 and 10 above, and further in view of US Patent Application Publication US 2005/0044442.

As per claims 2-4, US Patent Application Publication US 2005/0044442 teaches "a processing unit, video processing unit, hard disk drive" in paragraph 0046, lines 3-6. The motivation for combining the references presented in claim 1 above is also applicable here.

As per claims 12-14, the added limitations of the claims are rejected for the same reasons as discussed in the rejection of claims 2-4 respectively.

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is urged to consider the references. However, the references should be evaluated by what they suggest to one versed in the art, rather than by their specific disclosure.

The prior art submitted by applicant on 7/27/06 has been considered by the examiner and made of record in the file. If applicants are aware of any prior art better than those are of record, they are required to bring the prior art to the attention of the examiner. Applicants are also reminded that each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in 37 CFR 1.56. Applicants are advised to submit any information material to patentability in accordance with 37 CFR 1.97 and 1.98.

6. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification. Furthermore, all claims should be revised carefully to eliminate all grammatical errors and antecedent basis problems.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gopal C. Ray whose telephone number is (571) 272-3631. The examiner can normally be reached on Monday - Friday from 8:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart, can be reached on (571) 272-3632. The fax phone number for this Group is (571) 273-8300.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [mark.rinehart@uspto.gov].

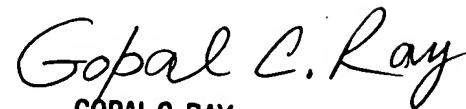
All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to TC central telephone number is (571) 272-2100. Moreover, information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lastly, paper copies of cited U.S. Patents and Patent Application Publications ceased to be mailed to applicants with office actions as of June 2004. Paper copies of Foreign Patents and Non-Patent Literature will continue to be included with office actions. These cited U.S. Patents and Patent Application Publications are available for download via Office's PAIR. As an alternate source, all U.S. Patents and Patent Application Publications are available on the USPTO web site (www.uspto.gov), from the office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at <http://www.uspto.gov/ebc/index.html> or 1-866-

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217-9197 for information on this policy. Requests to restart a period for response due to a missing U.S. Patent or Patent Application Publications will not be granted.



**GOPAL C. RAY
PRIMARY EXAMINER
GROUP 2800**